

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior listings and versions of claims in this application. Please cancel claims 3 and 10, without prejudice or disclaimer, amend claims 1, 2, 6, 11, 12, and 14, and add new claims 37-46, as follows:

1. (Currently Amended) A tissue patch for treatment of a lesion in an alimentary tract of a patient, comprising:

a substrate having a first surface and a second surface opposite to the first surface;

a sheet of tissue implant attached to the first surface of the substrate; and

a protective liner removably attached to at least one of the substrate and the sheet of tissue to cover the sheet of tissue covering at least a portion of the tissue implant,

~~wherein the substrate has a first surface for receiving the tissue implant and a second surface opposite to the first surface for facing a lumen of the alimentary tract, and~~

~~wherein the tissue implant occupies an area in the first surface of the substrate, the area being less than the surface area of the first surface.~~
2. (Currently Amended) A tissue patch according to claim 1, wherein the sheet of tissue occupies an area of the first surface, the area being less than the surface

~~area of the first surface the tissue implant is placed on the first surface of the substrate.~~

- 3-5. (Canceled).
6. (Currently Amended) A tissue patch according to claim 1, wherein an adhesive material for attaching the protective liner occupies at least a portion of the first surface other than ~~the~~ an area occupied by the tissue implant.
7. (Original) A tissue patch according to claim 1, further comprising an adhesive material to hold the patch proximate the lesion.
8. (Original) A tissue patch according to claim 7, wherein the adhesive material includes cyano-acrylate.
9. (Original) A tissue patch according to claim 7, wherein the protective liner is attached to the substrate via the adhesive material.
10. (Canceled).
11. (Currently Amended) A tissue patch according to claim 10 1, wherein the protective liner is configured to be peeled away from the at least one of the substrate and the tissue implant.

12. (Currently Amended) A tissue patch according to claim 1, wherein the protective liner is removably attached to the first surface of the substrate.
13. (Original) A tissue patch according to claim 1, wherein the substrate is a bio-absorbable gel.
14. (Currently Amended) A tissue patch according to claim 13, wherein the substrate includes a bio-absorbable material having a predetermined thickness designed to last for a predetermined time period required for healing of the lesion so as to protect the sheet of tissue implant from conditions in the alimentary tract.
15. (Previously Presented) A tissue patch according to claim 1, wherein the substrate includes a therapeutic agent selected from a group consisting of human growth hormone, genetically engineered cells, antibiotics, analgesics, and pH sensitive or reactive chemicals.
16. (Original) A tissue patch according to claim 15, wherein the therapeutic agent is infused into the substrate.
17. (Original) A tissue patch according to claim 15, wherein the therapeutic agent is layered in a predetermined depth within the substrate so that the therapeutic agent activates at a predetermined time.

18. (Original) A tissue patch according to claim 1, wherein the patch is configured to be delivered endoluminally.
19. (Original) A tissue patch according to claim 18, wherein the patch is configured to be folded into a contracted state during delivery into the lesion.
20. (Original) A tissue patch according to claim 19, wherein the patch is capable of expanding upon deployment into the lesion.
21. (Original) A tissue patch according to claim 1, wherein the patch is configured to be rolled into a cylindrical shape.
22. (Original) A tissue patch according to claim 1, wherein the tissue implant is a genetically engineered tissue.
23. (Original) A tissue patch according to claim 1, further comprising a carrier attached to the substrate.
24. (Previously Presented) A tissue patch according to claim 23, wherein the carrier is configured to be peeled away from the substrate.

25. (Original) A method of treating a lesion in a lumen of patient's body, comprising:
 - providing a tissue patch having a tissue implant attached to a substrate and a protective liner covering at least a portion of the tissue implant;
 - forming the tissue patch into a contracted state;
 - inserting the tissue patch in the contracted state into a lumen containing the lesion;
 - positioning the tissue patch in the vicinity of the lesion;
 - removing the protective liner to reveal the tissue implant; and
 - placing the tissue implant in the lesion.
26. (Original) A method according to claim 25, further comprising placing the tissue patch on a portion of a catheter for inserting the tissue patch in the contracted state.
27. (Original) A method according to claim 25, further comprising expanding the tissue patch from the contracted state before the step of removing the protective liner.
28. (Original) A method according to claim 25, wherein an adhesive material is provided on the substrate and the protective liner attaches to the adhesive material.

29. (Original) A method according to claim 25, wherein at least a portion of the substrate includes an adhesive material.
30. (Original) A method according to claim 25, wherein the tissue implant is placed on a surface of the substrate.
31. (Original) A method according to claim 25, wherein the tissue implant is embedded in the substrate in a form of a cellular suspension.
32. (Original) A method according to claim 25, wherein the substrate is a bio-absorbable gel.
33. (Original) A method according to claim 25, further comprising attaching a carrier to the substrate on a surface opposite to the surface facing the lesion and removing the carrier from the substrate after the tissue implant is placed in the lesion.
34. (Original) A method according to claim 25, wherein the tissue implant is an engineered tissue.
35. (Original) A method according to claim 25, wherein forming the tissue patch into a contracted state includes folding the tissue patch.

36. (Original) A method according to claim 25, wherein forming the tissue patch into a contracted state includes rolling the tissue patch into a cylindrical shape.

37. (New) A tissue patch for treatment of a lesion in an alimentary tract of a patient, comprising:

 a substrate having a first surface and a second surface opposite the first surface;

 a tissue implant attached to the first surface of the substrate and occupying a first area of the first surface;

 a protective liner attached to the first surface of the substrate so that the tissue implant is place between the substrate and the protective liner;

 and

 an adhesive material for attaching the protective liner to the substrate, wherein the adhesive material occupies a second area of the first surface that is different from the first area.

38. (New) A tissue patch according to claim 37, wherein the second area comprises an outer edge of the first surface.

39. (New) A tissue patch according to claim 37, wherein the protective liner is removably attached to the substrate.

40. (New) A tissue patch according to claim 37, wherein the adhesive material is configured to hold the patch proximate the lesion after the protective liner is removed.
41. (New) A tissue patch according to claim 37, wherein the protective liner is configured to be peeled away from the substrate.
42. (New) A tissue patch according to claim 37, wherein the substrate includes a therapeutic agent.
43. (New) A tissue patch according to claim 37, wherein the patch is configured to be folded into a contracted state during delivery into the lesion.
44. (New) A tissue patch according to claim 37, wherein the patch is capable of expanding upon deployment into the lesion.
45. (New) A tissue patch according to claim 37, wherein the tissue implant comprises a sheet of tissue.
46. (New) A method according to claim 25, wherein the tissue implant comprises a sheet of tissue.